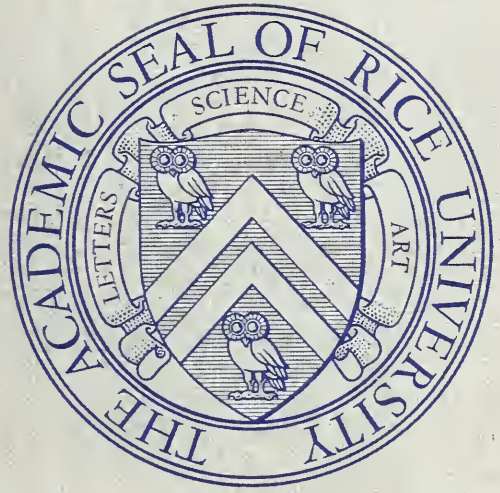
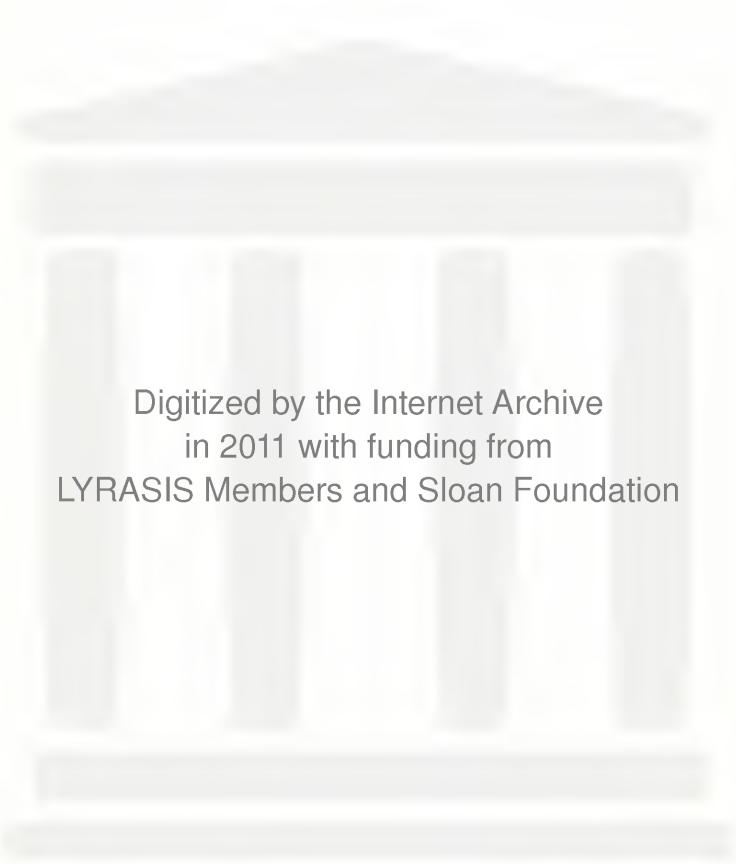
REPORT OF THE PRESIDENT



RICE UNIVERSITY

1962-1963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ANNUAL REPORT
OF THE PRESIDENT

William Marsh Rice University

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October, 1963

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TABLE OF CONTENTS

Page No.

Highlights of the Year 8

The Semicentennial Year 13

Teaching and Students 17

Research 23

Development 26

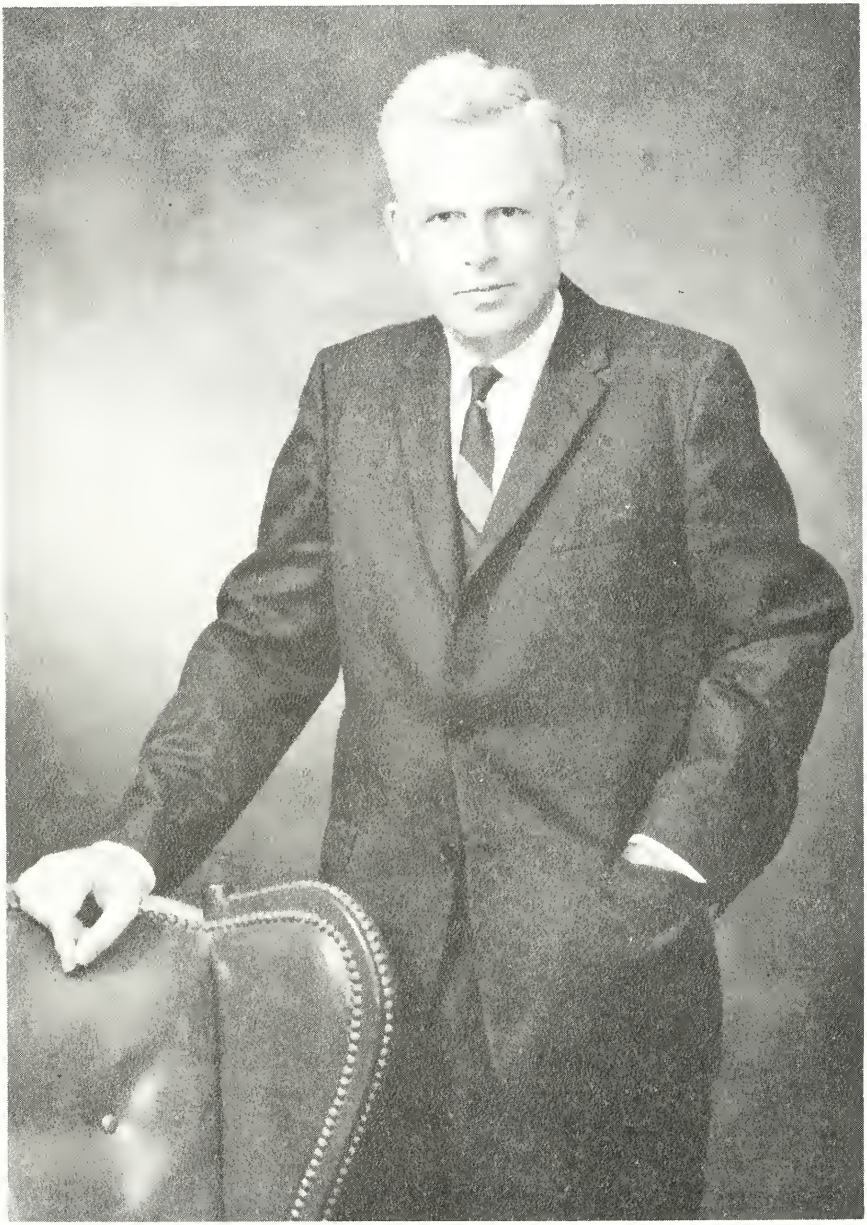
Plant 29

Finances 32

Faculty

- Faculty Accomplishments and Honors 34
- Staff Changes 36
- Faculty Promotions 38
- Faculty Appointments 39
- Leave of Absence 42

Necrology 43



KENNETH S. PITZER
President

To the Board of Governors and Friends of Rice:

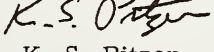
It is my privilege to submit to you this Annual President's Report for the academic year 1962-63. This, my second year at Rice, has been one of the most productive and certainly one of the most rewarding of my life.

It was to be expected that the special events planned in recognition of our fiftieth year would make this an outstanding year from an academic point of view. Aside from this, however, important advancements have been made in many areas -- improved curriculum, the addition of outstanding faculty members, plans for improvements and additions to the physical plant and others.

A growing awareness of the needs and problems of higher education is evidenced in the Southwest and particularly in the State of Texas. This is certainly one of the most encouraging developments of the year, if not the decade.

For the encouragement and support given to me and to Rice University during the past year, I am deeply grateful.

Respectfully submitted,



K. S. Pitzer
President

HIGHLIGHTS OF THE YEAR

This is intended to be only a brief chronological listing of some of the major activities of the year. A more detailed discussion of many of these appears later in this report.

SEPTEMBER

President of the United States, John F. Kennedy visited the campus and gave an address in Rice Stadium to a gathering of 50,000 people.

OCTOBER

Establishment by bequest of Mrs. Mamie F. Martel four Professorships, each Chair to be named for a member of Mrs. Martel's family.

Inauguration of Dr. Kenneth S. Pitzer as third president of Rice University.

A three-day Academic Festival marking the University's Semicentennial.

NOVEMBER

Rice received a $300,000 grant from the National Science Foundation for assistance in the renovation and expansion of research facilities in chemistry.

Annual meeting of the Geological Society of America.

DECEMBER

Rice received an unrestricted $50,000 gift from Texaco, Incorporated's Aid-to-Education program.

Twenty-ninth Annual Chemical Engineering Symposium, "Thermodynamics and Transport Properties of Fluids," presented by the Division of Industrial and Engineering Chemistry of the American Chemical Society.

JANUARY

Establishment of Department of Space Science under the Chairmanship of Dr. Alexander J. Dessler.

Rice received a $439,876 grant from the National Institute of Dental Research for graduate research in physiology.

FEBRUARY

International Conference in Fast Neutron Physics including joint meetings with the American Physical Society and Sociedad Mexicana de Fisica. The opening meeting of the joint session included a special ceremony dedicating the T. W. Bonner Nuclear Laboratories in memory of the late Dr. T. W. Bonner, Professor of Physics at Rice.

Counsel for the University filed a petition in the 157th District Court based on a resolution adopted by the Board of Governors September 26, 1962. In the words of the petition, "Specifically the plaintiffs seek the court's approval of their construction of the organic instruments by which Rice University was created, to the end that the plaintiffs be authorized:

(1) to charge students who are admitted to Rice University such amounts of tuition, fees or other payments as the Board of Trustees in their discretion may from time to time determine and deem necessary, such amounts to be applied to the support and operation of Rice University; and

(2) to admit as students of Rice University without regard to race or color, persons who qualify with its standards and requirements for admission and rules and regulaitons established from time to time by and in the discretion of its Board of Trustees."

MARCH

Announcement was made of the establishment of a separate Department of Psychology under the Chairmanship of Dr. Bert Kaplan. (Psychology was formerly a part of the Department of Philosophy, Psychology and Education.)

Rice students received 17 National Science Foundation Fellowships.

APRIL

International Symposium on "Natural Radiation Environment," sponsored by the Department of Geology, the U. S. Atomic Energy Commission, and the U. S. Public Health Service.

Rice received 20 National Aeronautics and Space Administration Fellowships for graduate study in space-related science and technology.

MAY

Ford Foundation Seminar in Economics.

JUNE

Rice conferred a total of 367 undergraduate degrees and 99 advanced degrees (including 33 Ph.D. degrees) at its Fiftieth Commencement exercises. The Commencement address was delivered by the Honorable John Connally, Governor of the State of Texas. The Baccalaureate speaker was Dr. Franklin W. Young, Professor of New Testament and Early Christianity at Princeton University.

Rice Architectural Design Fete for industrial plant with fallout shelter, financed by a grant from the Office of Civil Defense.

Announcement was made of the establishment of a Satellite Techniques Laboratory to provide the foundation on which to build the experimental program of the Space Science Department. Chief of the new Laboratory is Mr. Curtis D. Laughlin.

Third Annual Industrial Water and Waste Conference of the Texas Water Pollution Control Federation.

First Summer Chemical Engineering Symposium of the Industrial and Engineering Division of the American Chemical Society. Topic: "Kinetics and Catalysis."

JULY

Dr. J. L. Franklin was appointed to fill the recently established Robert A. Welch Chair of Chemistry.

AUGUST

Rice received a gift of $1,000,000 from the Brown Foundation, Inc. to be used to establish a second residential college for women on the campus. The new college will be named the Margarett Root Brown College.

THE SEMICENTENNIAL MEDAL OF HONOR
AND
CERTIFICATE OF MERIT

1962-1963

THE SEMICENTENNIAL YEAR

To try to condense into a few brief paragraphs the significant events of Rice University's Semicentennial year seems an almost foolhardy attempt when one considers that two books on this subject have been published and at least thirteen more are forthcoming. However, it would be remiss on my part not to recognize the honor extended to this institution and to myself by the hundreds of distinguished scholars and leaders of other professions who contributed to the Academic Festival, my Inauguration and the Semicentennial events throughout the year. Under the direction and coordination of the Semicentennial Committee and the Inaugural Committee, plans were made and executed for the special programs. It can be said without hesitation that every member of the Rice family—academic and non-academic—contributed to the preparations necessary for this undertaking.

The official opening of the Semicentennial year was marked on the 10th, 11th, and 12th of October, 1962 with my Inauguration and the three-day Academic Festival. The principal Inaugural Address was given by my good friend and colleague, Dr. T. Keith Glennan, President of Case Institute of Technology. On the following day one of the outstanding historians of our time, Dr. Arnold J. Toynbee, gave the Convocation Address.

Although by tradition Rice University does not bestow honorary degrees, it was decided to commemorate the fiftieth anniversary by presenting Medals of Honor to certain individuals who have served mankind through unusually meritorious contributions to knowledge, to education, and to their respective pro-

fessions or disciplines. I list below the names of these honorees and their fields of distinction.

Brand Blanshard *for Distinction in Philosophy*

Hubert Evelyn Bray *for Distinction in Mathematics*

Bertrand Harris Bronson *for Distinction in English Literature*

James Henry Chillman, Jr. *for Distinction in Fine Arts*

William Maurice Ewing *for Distinction in Geology*

Thomas Keith Glennan *for Distinction in Engineering*

William Vermillion Houston *for Distinction in Physics*

Louis Landré *for Distinction in Comparative Literature*

Jean Leray *for Distinction in Mathematics*

Alan Dugald McKillop *for Distinction in English Literature*

Margaret Mead *for Distinction in Anthropology*

Allan Nevins *for Distinction in History*

Henri Maurice Peyre *for Distinction in French Literature*

William Grosvenor Pollard *for Distinction in Physics*

Vladimir Prelog *for Distinction in Chemistry*

John Lyon Reid *for Distinction in Architecture*

Glenn Theodore Seaborg *for Distinction in Nuclear Chemistry*

Claude Elwood Shannon *for Distinction in Applied Mathematics*

Fritz Stüssi *for Distinction in Civil Engineering*

Albert Szent-Gyorgi *for Distinction in Biochemistry*

Sir Geoffrey Ingram Taylor *for Distinction in Engineering Science*

Sir George Paget Thomson *for Distinction in Physics*

Arnold Joseph Toynbee *for Distinction in History*

Radoslav Andrea Tsanoff *for Distinction in Philosophy*

Jacob Viner *for Distinction in Economics*

Harold Albert Wilson *for Distinction in Physics*

Sakae Yagi *for Distinction in Chemical Engineering.*

The 1962 Homecoming activities were planned to follow the three-day academic festival and included such items of note as the Annual Homecoming Dinner, with Dr. William G. Pollard, Executive Director of the Oak Ridge Institute of Nuclear Studies, as speaker. A new color film, "Golden Years," which depicts the university as it is now and was through the years, was shown for the first time. Another outstanding event of the festivities was the dedication of Rayzor Hall, which houses the Humanities and was made possible through the generosity of Mr. and Mrs. J. Newton Rayzor.

In a continued observance of the semicentennial year and through the efforts of the various departments of the University, many outstanding symposia were held throughout the year as well as several well-received lecture series. To give an idea of the scope of subjects covered, I have listed some of these here.

"Behaviorism and Phenomenology: Contrasting Bases for Modern Psychology"

"Critical and Historical Lectures" (lecture series)

"Delayed Implantation in Mammals"

"Frontiers of Geology"

"Prehistoric Man in the New World"

"Medieval History Today" (lecture series)

"Natural Radiation Environment"

"Research Requirements and the Modern University Library" (panel discussion)

"Role of the Educated Woman"

"The Idea of the South"

"The Nation's Economic Objectives: Roots and Problems of Achievement" (lecture series)

"The People's Architects"

The excitement generated by the programs especially planned for the semicentennial year in no way detracted from those functions that have been an annual part of the university atmosphere. Rice has long contributed substantially to the cultural life of the community with such events as the Rockwell Lectures, which

were delivered in April this year by Professor Paul Ricoeur of the University of Paris. His topic was "Problems of Religious Language."

Religious Emphasis Week held in March with Dr. Herbert Butterfield, Vice-Chancellor of Cambridge University, and Dr. Arnold Nash, Professor of History at the University of North Carolina, as speakers proved to be especially popular with the students.

The annual Chamber Music Series, sponsored by the Shepherd School of Music, has an enthusiastic following both on the campus and among the townspeople. Other well received programs were the Bartlett Aesthetics Program and the Chapel Lecture Series.

The Rice television series, planned and produced in cooperation with KTRK-TV in Houston consisted of nine programs this year covering such widely diversified topics as "The Town House," featuring the architecture department, and "High Temperature Chemistry."

TEACHING AND STUDENTS

If the stimulating activity of the Semicentennial Year and the accompanying presence of distinguished scholars and scientists from around the world may be described as a climax to fifty years of tradition based on academic excellence, the year should also be marked as one of internal preparation for the future. Decisions and appointments were made in preparation for programs of even stronger caliber in the years to follow.

Two new departments were announced effective with academic 1963-1964—a Department of Space Science and a separate Department of Psychology. In connection with Space Science, the University also established a Satellite Techniques Laboratory. Meanwhile the installation of two new language laboratories was completed, making them available for use at the beginning of the 1963-64 school year.

Among the appointments made were those of Dr. Alexander Dessler as Chairman of the Department of Space Science, and Dr. Bert Kaplan as Chairman of the Department of Psychology. Dr. John Rath of the University of Texas accepted the Chairmanship of the Department of History, and Dr. Henry C. Bourne of the University of California was named Chairman of the Department of Electrical Engineering.

Two very important faculty committees were also formed early in the year, the findings of which may be extremely important in the long-range planning of the future of Rice.

The Academic Planning Committee has several sub-committees working with it to find out exactly where the University

FOREIGN LANGUAGE LABORATORIES

now stands and what its course should be for the next ten years, with a sub-goal of a five-year report. The Committee's investigations include new academic programs, and the size of enrollment and plant, and are designed as a complete self-examination.

The Committee on Residential Colleges was formed to review the progress of the college system at Rice during the five years since its inception and to determine the need for additional facilities. They are also to determine how the operation of the colleges could be improved to make the academic process a more worthwhile experience for students.

In evaluating the qualifications and accomplishments of the student body, one naturally turns his attention first to the incoming freshmen. Based on high school records, National Merit Scholarships and College Board scores, the entering freshmen in the fall of 1962 reflected a continuing trend of greater scholastic achievement in the students accepted for admission at Rice.

Some comparative figures compiled by the Admissions Office will serve to illustrate this point. Forty members of the Freshman Class were National Merit Scholarship winners compared to thirty-five in 1961. Rice ranked sixth in the nation in total number of National Merit Scholars enrolled. It is interesting to note that more than 64% of the freshmen ranked in the upper 5% of their graduating class in high school and that 97 were valedictorians and 21 salutatorians. A more detailed comparison with the previous year follows.

Characteristics of Freshman Class

Average College Board Scores		1962	1961
Class Average		677	662
By Division			
Academic	39%	664	652
Science — Engineering	56%	690	673
Architecture	5%	645	629
Scholastic Standing			
National Merit Scholarships		40	35
Valedictorian		97	58
Salutatorian		21	33
Upper 5% of Graduating Class		64%	64%
In General			
Entering Freshmen		488	455
Men		387	360
Women		101	95
Men by percent		77%	79%
Women by percent		23%	21%

Total Enrollment

	1962	1961
Undergraduates	1656	1569
Fifth Year Architects and Engineers	71	72
Advanced Degree Students	408	344
Grand Total*	2145	1992

* Includes 9 undesignated and 1 special student.

In accordance with the expressed wishes of William Marsh Rice, preference is given to students from Texas for a majority of places in the freshman class. It is interesting to note, however, that the geographic distribution of the non-Texas portion of the Rice student body is changing slowly and is beginning to represent a cross section of academic excellence from the entire nation.

Another encouraging trend is shown in the number of outstanding graduate students attracted to Rice from foreign countries.

It should be noted that the enrollment of graduate students increased last year in accordance with our plans, and that while

there were fewer who came to Rice from within the state, we had good increases in the enrollment of out-of-state students. This is in line with the general practice which graduate students have of taking advanced studies at institutions other than that which awarded the first degree, and in the majority of cases crossing state lines to do advanced work.

On a percentage basis the increase in the graduate enrollment was about evenly divided among the Humanities, the Sciences including Mathematics, and Engineering. Graduate studies in the Sciences and Engineering continue their dominance, however, with 326 enrolled as compared to 77 in the Humanities.

The following breakdown indicates the changing geographic pattern of enrollment.

Geographic Analysis of Total Enrollment

Enrollment Figures	1962	1961
From Texas		
Entering Freshmen	329	309
Total Undergraduates	1224	1224
Graduate Students	185	203
Total Enrollment	1409	1427
*From the South and Southwest**		
Entering Freshmen	49	45
Total Undergraduates	154	138
Graduate Students	83	64
Total Enrollment	237	202
From all other States		
Entering Freshmen	105	99
Total Undergraduates	262	196
Graduate Students	135	111
Total Enrollment	397	307
From Foreign Countries (includes American students)		
Entering Freshmen	5	2
Total Undergraduates	16	11
Graduate Students	85	45
Total Enrollment	101	56

* Nine States: Alabama, Arizona, Arkansas, Georgia, Louisiana, Mississippi, New Mexico, Oklahoma and Tennessee.

The University granted 466 degrees at Commencement in 1963. Twenty-six members of the Senior Class were elected to membership in Phi Beta Kappa. Six seniors were graduated *summa cum laude*, nineteen *magna cum laude*, and twenty-five *cum laude*. Degrees were conferred as follows: 273 Bachelor of Arts, 19 Bachelor of Commerce, 9 Bachelor of Physical Education, 10 Bachelor in Architecture, 17 Bachelor of Science in Chemical Engineering, 2 Bachelor of Science in Civil Engineering, 26 Bachelor of Science in Electrical Engineering, and 11 Bachelor of Science in Mechanical Engineering. Advanced degrees included 32 Master of Arts, 3 Master of Architecture, 31 Master of Science and 33 Doctor of Philosophy.

Among our graduates, 10 were awarded Woodrow Wilson Fellowships and 3 others accorded Honorable Mention, 5 received Fellowships from the National Science Foundation, (an additional 12 National Science Foundation grants were awarded to graduate students), one received a Fulbright Grant for graduate study in Germany and one was awarded a Rhodes Scholarship for two years study at Oxford.

In the fall of 1962, the faculty voted to modify the requirements for the Dean's List and rename it the President's Honor Roll. Under the new provisions, two groups of students will be eligible: those who make no grade of less than "2" and those who have made grades of "3" provided they have twice as many grades of "1" as of "3." Under the new requirements, 309 students made the President's Honor Roll during the first semester and 335 during the second semester.

It is very difficult to state a percentage of graduates who go on to do graduate study, because of the many who take employment for a year or two and then decide to go back to school for work toward an advanced degree; however, from the Class of 1963, 61.8% stated definite plans to do graduate work.

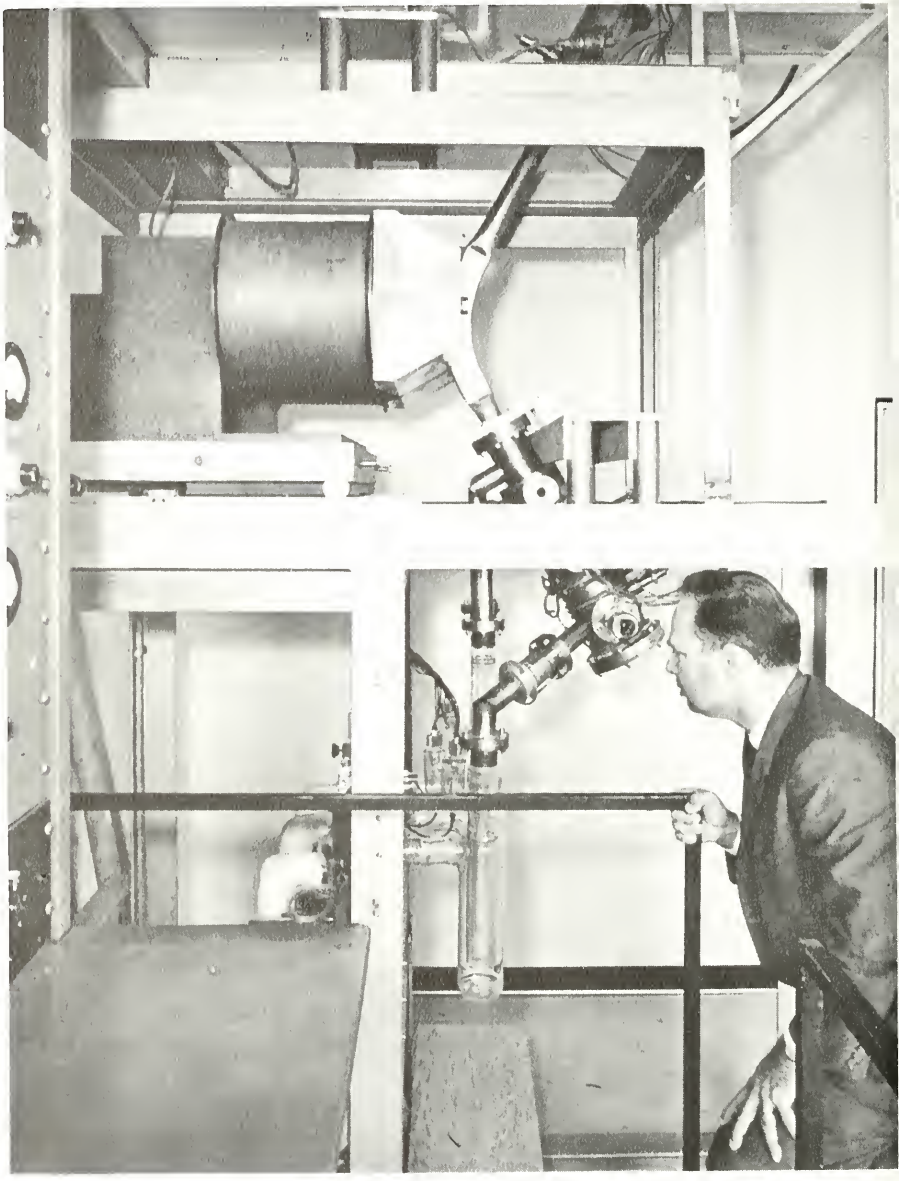
RESEARCH

Basic research at Rice received a big boost with the establishment of the Department of Space Science and the appointment to the faculty of several scientists highly regarded for their research into the various phenomena of space. In addition, the Satellite Techniques Laboratory will assist the faculty and graduate students of the Department of Space Science in carrying out successful experiments in outer space.

The appointments of Professors Margrave and Franklin in the Department of Chemistry, likewise establish a center for mass spectrometric research at the University comparable with any in the world. These men have pioneered in the use of these instruments to study chemical reactions under extreme conditions in a way heretofore impossible.

The acquisition of the private collection of German literature of Professor Joseph Nadler, made possible by a gift from The Farish Fund, added some 14,000 volumes to Fondren Library, and is certain to be of great assistance to research in German history, philosophy and literature.

Space limitations prevent a mention of all of the research activities on the campus, which are listed in the two volumes: *Current Research Activity in Science, Engineering and Mathematics* and *Current Research Activity in The Humanities.* These publications are available on request. I would, however, like to mention a few projects which seem to me to be particularly exciting: Professor Vandiver's research toward a biography of General John J. Pershing, and in the sciences Professor Donoho's study of the interaction of sound waves and solids at low temperatures and Professor Walter's research with polarized helium atoms.



MASS SPECTROMETER

The trend of more grants for a greater variety of research projects continued in 1962-1963. There were fifty-one new research grants, several of which, however, were renewals of earlier grants.

The following lists sources of grants and the various disciplines which received support.

The Atomic Energy Commission—Biology, Chemistry, Electrical Engineering, Geology and Physics

Army and Air Force Agencies—Chemistry and Mathematics

The National Aeronautics and Space Administration—Materials Science and Engineering (five different departments involved in seventeen projects)

The National Science Foundation—Anthropology, Biology, Chemical Engineering, Chemistry, Economics, Electrical Engineering, Geology, Mathematics and Physics

U. S. Aid Mission, Guatemala—Geology

U. S. Public Health Service—Biology, Biotechnology, Chemical Engineering, Chemistry and Geology

The Robert A. Welch Foundation—Chemistry, including Biochemistry and Geochemistry

Grants for research in several different departments were also received from American Metal Climax, Inc., The American Petroleum Institute, The Ford Foundation, Jersey Production Research Company, Jet Propulsion Laboratory, A. D. Little, Inc., Natural Gas Producers Association, Resources of the Future, Inc., and A. P. Sloan Foundation.

DEVELOPMENT

During the fiscal year ending June 30, 1963 the University received total gift support of $1,704,586. Of this amount $1,052,199 was for current operations and $652,387 for capital purposes. These gifts included grants for use as unrestricted or general purpose funds, faculty compensation, buildings, equipment, library acquisitions, scholarships, fellowships, research, and various other programs. Benevolences to Rice came in the form of cash, securities, land, buildings, insurance policies and bequests.

The Annual Alumni Fund continued its upward progress with total gifts in the amount of $108,671. This compared with $89,170 for the previous year. The number of donors to this fund increased from 4,527 to 4,892. Mr. C. O. Ryan, National Chairman for the Annual Alumni Fund, along with all the other alumni who took part are to be congratulated on this successful effort.

The Rice Society of Families had an outstanding year with success in building and maintaining closer ties between the University and the families of students, and in promoting the welfare and advancement of the University through an annual gift program. In its second year of operation $56,698 was donated to Rice through the Society of Families. This figure doubled the contributions of $28,000 made by parents in the 1961-62 year. Mr. and Mrs. Benjamin Woodson, general chairmen of the Society of Families, and the families that acted as chairmen of their respective classes deserve high praise for this successful program.

The Rice University Associates comprising some 173 members made a total contribution of $189,000 to the operating fund. Since its beginning a generous $946,384 has been made available to Rice through the Associates. The Associates are made up of a continuing group of men and women of ability, experience, and influence, whose interest in Rice University will materially advance the University's welfare. Mr. Harmon Whittington, Chairman of the Associates, and the members of his committee, along with all of the Associates, deserve the heartfelt thanks of everyone at the University for their excellent assistance down through the years and in particular for the past year.

The University's Research Sponsor program included as of June 30, 1963, twelve corporation members. Each of these contribute $10,000 or more annually for unrestricted research. A close liaison is kept between the member corporations and research activity on the campus which may be of benefit to their scientists and engineers.

In view of the various national and international symposia of the Semicentennial program, the Rice University Research Days were omitted in 1962-63 but these seminars designed particularly to discuss recent research with the Sponsor's group will be continued in the future.

Including funds received through the Research Sponsor Program, total industry and corporation support for the year was $329,883.

Gifts to the University were from many individuals, corporations and foundations. It would be impossible to name everyone in this report, but a representative list of larger gifts is included to illustrate the range of support Rice received in recent months.

American Petroleum Institute—research; John H. Blaffer—memorial funds; Brown Foundation—residential college for women; Continental Oil Company—research, fellowships, unrestricted; Dow Chemical Company—research, fellowships; E. I. du Pont de Nemours and Company—building, undergraduate teaching; Educational Facilities Laboratories—architectural Design Fete publication; The Farish Fund—Nadler Collection;

Thomas Flaxman—scholarship fund; Ford Foundation—college teaching preparation aid; Gulf Oil Corporation—research; Mrs. Alice N. Hanszen—unrestricted; Hobby Foundation—unrestricted; Houston Endowment, Inc.—scholarships, grants-in-aid; Humble Oil & Refining Company—research, fellowships; Jersey Production Research Company—research; Ling-Temco-Vought, Inc.—grants-in-aid, research, unrestricted; Martel Trust—chairs of instruction; National Merit Scholarship Corporation—scholarships, educational grant; Pan American Petroleum Foundation —unrestricted, operating expenses, research; Mrs. Cora V. Peden—collection of Civil War letters; Mr. and Mrs. J. Newton Rayzor—Humanities Building and maintenance costs, fellowships, scholarships; Rockwell Fund—scholarship fund; Schlumberger Foundation—scholarships, research, unrestricted; Shell Companies Foundation, Inc.—fellowships, research; Socony Mobil Oil Company, Inc.—research; Superior Oil Company—scholarships; Teagle Foundation, Inc.—scholarships, unrestricted; Texaco, Inc.—scholarships, fellowships, unrestricted, research; Texas Instruments, Inc.—research; Robert A. Welch Foundation —professorship, research; Mrs. Harry C. Weiss and daughters—unrestricted endowment.

On behalf of the University I wish to acknowledge the generosity of all who have extended their financial support. As Rice looks to the future and the educational challenge that lies ahead, it becomes obvious that the funds received from these private sources will play an increasingly important role in the over-all development of the various programs of the University.

PLANT

The cornerstone for Lovett Hall was laid by the Trustees on March 2, 1911, and the original group of buildings available for use in 1912 comprised Lovett Hall, the Mechanical Laboratory and Power House and one men's dormitory. Today there are 30 buildings plus the stadium representing an investment of over 33 million dollars. While it is true that this indicates great advancement in physical growth, there are many plant inadequacies on the campus today, and in the following paragraphs I will mention some of the more immediate needs.

Even though funds are not currently on hand for the construction of the Space Science and Technology Laboratories, so vital to our new Space Science Department, plans are being drawn up for such a building. When funds are available, the building will be located north of the Geology and Biology Buildings and adjacent to Hamman Hall. The Department of Space Science is being housed temporarily in the Geology Building.

The Satellite Techniques Laboratory is temporarily located in a new building constructed to serve eventually as a Buildings and Grounds shop. This building is located behind the Power Plant. When the Space Science Building is built the Satellite Techniques Laboratory will be situated in the new building.

A $300,000 grant from the National Science Foundation and an additional sum from E. I. du Pont de Nemours and Company was supplemented by funds form the University to allow work to begin on the renovation and expansion of research facilities in the Chemistry Building. Work is also under way to improve

the undergraduate laboratories in that building and the Chemistry Lecture Hall has been completely renovated.

Plans are being completed for the Ryon Engineering Laboratory and the job will go out for bids around the 15th of November. This building will be located on the site of the present temporary engineering annex.

Plans are being drawn up for the new Margarett Root Brown College for women made possible by the one million dollar gift from the Brown Foundation. The new residential college will be designed to accommodate 150 to 200 girls and will be located near the present Mary Gibbs Jones College in the northwest corner of the campus.

On the recommendation of the Committee on Residential Colleges, preliminary plans have been completed for the addition of a wing to Wiess College. The addition is designed to provide room accommodations, study, and recreational facilities equal to the other men's colleges.

Improvements are underway on the basement of the Rice Memorial Center to enable more effective utilization of the space available there.

Serious consideration is now being given to the need for enlargement of Fondren Library. In order to accommodate the one million bound volumes it is anticipated we will have by 1980, it will be necessary to double the size of the existing facility. No arrangements have been made to date for the financing of such an addition.

LEGEND :
1 WIESS COLLEGE
2 WIESS HOUSE
3 HANSZEN COLLEGE
4 HANSZEN HOUSE
5 WILL RICE HOUSE
6 WILL RICE COLLEGE
7 BAKER COLLEGE
8 BAKER HOUSE
9 COHEN HOUSE (FACULTY CLUB)
10 LOVETT HALL
11 PHYSICS LABORATORIES
12 ANDERSON HALL
13 FONDREN LIBRARY
14 CHEMISTRY LABORATORIES
15 NUCLEAR RESEARCH LABORATORIES
16 PRESIDENT'S HOUSE
17 MARY GIBBS JONES COLLEGE
18 ABERCROMBIE ENGINEERING LABORATORY
19 MECHANICAL LABORATORIES
20 ENGINEERING ANNEX
21 NAVY BUILDING
22 ARMY BUILDING
23 HAMMAN HALL (AUDITORIUM)
24 KEITH - WIESS GEOLOGICAL LABORATORIES
25 M. D. ANDERSON BIOLOGICAL LABORATORIES
26 RICE MEMORIAL CENTER
27 GYMNASIUM & AUTRY COURT
28 JONES HOUSE
29 RAYZOR HALL
30 SATELLITE TECHNIQUES LABORATORY
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RICE BOULEVARD
SUNSET BOULEVARD
UNIVERSITY BOULEVARD
SOUTH MAIN STREET

FINANCES

The following financial summary is taken from the Treasurer's Annual Report for the year ended June 30, 1963.

Current Income for Educational Expenditures:

Endowment Income	$ 3,943,895
Student Fees	224,047
Gifts, Grants-in-aid, and other funds to provide for instructional expense	1,187,099
Research Contracts and Grants	1,656,550
Auxiliary Enterprises—net	137,378
Less—Reserved income allocation	(234,071)
Total	$ 6,914,898

Educational Expenditures and Reserves:

Administrative and Educational Departments	$ 3,544,705
Library	491,974
Operation and Maintenance of Physical Plant	614,003
Retirement Fund Contributions	315,307
Research Contracts and Grants (direct costs)	1,426,046
Scholarships and Expenditures for Special Projects	438,445
Other—nonrecurring	234,545
Total	$ 7,065,025
Excess of expenditures over income	$ (150,127)

Within my knowledge, this is the first annual deficit in the history of Rice University. Faculty salaries and other costs have risen more rapidly than has the income from endowment and gifts for current use. To assist in overcoming this situation we will look to increased support from alumni, corporations, foundations, and other friends. Knowledge that this situation was developing influenced the Trustees in their decision to file a petition for modification of the charter to allow the University to charge tuition.

Also in anticipation of this deficit and the possibility of others in the future, the firm of Kersting, Brown and Company, Inc., fund raising consultants, was asked to make a study of Rice and its constituency. They have made a recommendation that we engage in a major capital gift effort to increase the endowment funds of the University.

FACULTY ACCOMPLISHMENTS AND HONORS

Professor W. W. Akers, Chemical Engineering, was elected vice chairman of the Council of the Oak Ridge Institute of Nuclear Studies. He was also named honorary chairman of the Fifth National Heat Transfer Conference sponsored by the American Institute of Chemical Engineers and the American Society of Mechanical Engineers.

Professor Arthur W. Busch, Chemical Engineering, has been named to the Technical Advisory Commission of the Texas Water Pollution Control Board.

Chancellor Carey Croneis served as General Chairman of the 75th Annual Convention of the Geological Society of America. He also is coauthor of *Meeting Manpower Needs in Science and Technology*, a report of President Kennedy's Science Advisory Committee.

Dr. Sam H. Davis, Jr., Chemical Engineering, was awarded a Guggenheim Fellowship to study for a year at Delft, Netherlands.

Dr. Alexander J. Dessler, Space Science, was named recipient of the second annual James B. Macelwane Award presented by the American Geophysical Union for outstanding contributions to the geophysical sciences.

Dr. Edward Dvoretzky, Foreign Languages, published a translation and introduction to Lesing's play *Emilia Galotti.*

Professor E. O. Edwards, Economics, received the Alumni Citation for Distinguished Service from Washington and Jefferson College.

Professor Joseph S. Gallegly, English, received the prize for best work contributing to Texas history research in 1962 by the Texas Institute of Letters for his newly published, *Footlights on the Border.*

Honorary Chancellor William V. Houston gave a special series of lectures at the Rockefeller Institute in April.

Professor John L. Margrave, Chemistry, was named to the Advisory Board of the Journal of Physical Chemistry.

President K. S. Pitzer received Dickinson College's Priestley Memorial Award for 1963 for service to mankind through Chemistry. He also received an honorary Doctor of Laws degree from the University of California.

Professor Clark P. Read, Biology, was named recipient of the National Institutes of Health's Research Career Professorship.

Associate Professor Gaston V. Rimlinger, Economics, was awarded a Ford Foundation Faculty Research Fellowship for 1963-64 to study social security systems in several countries.

Professors Anderson Todd and Bill N. Lacy, Architecture, have been asked to serve as architectural design consultants in developing the master campus plans for Duke University and Southern Colorado State College.

Professor Frank Vandiver, History, was named Harmsworth Professor of American History at Oxford University for the academic year 1963-64.

STAFF CHANGES

Dr. Walter J. Austin, Chairman of the Department of Civil Engineering (Effective September 1, 1963)

Dr. F. W. Bearden, Acting Chairman of the Department of Health and Physical Education (Effective September 1, 1963)

Dr. Henry C. Bourne, Jr., Chairman of the Department of Electrical Engineering (Effective July 1, 1963)

Dr. Dwight S. Brothers, Acting Chairman of the Department of Economics and Business Administration (Effective September 1, 1963)

George B. Carlisle, Basketball Coach (Effective August 1, 1963)

Allen Davis, Freshman Football Coach and Assistant Basketball Coach (Effective July 29, 1963)

Dr. Alexander J. Dessler, Chairman of the Department of Space Science (Effective March 1, 1963)

Dr. Phillip F. Detweiler, Editor of the *Journal of Southern History* and Associate Professor of History (Effective June 1, 1963)

Dr. Jim Douglas, Jr., Chairman of the Department of Mathematics (Effective February, 1963)

Dr. W. O. Dowden, Chairman of the Department of English (Effective July 1, 1963)

Dr. Robert L. Kahn, Chairman of the Department of Foreign Languages (Effective June 1, 1963)

Dr. Bert H. Kaplan, Chairman of the Department of Psychology (Effective September 1, 1963)

Curtis D. Laughlin, Chief of the Satellite Techniques Laboratory (Effective July 1, 1963)

Dr. Andrew Louis, Director of Language Laboratories (Effective September 1, 1963)

Dr. Gerald R. MacLane, Chairman of the Department of Mathematics (Effective August 1, 1963)

Timothy C. Osborne, Associate Director of Development (Effective April 1, 1963)

Dr. Paul Paslay, Chairman of the Department of Mechanical Engineering (Effective September 1, 1963)

Dr. R. John Rath, Chairman of the Department of History (Effective September 1, 1963)

Frederick H. Ruecking, Jr., Head of Circulation, Fondren Library (Effective July 1, 1963)

Dr. James R. Sims, Campus Business Manager (Effective July 1, 1963)

FACULTY PROMOTIONS

To Professor

Jorge Awapara, Biochemistry
Calvin M. Class, Physics
Thomas W. Leland, Chemical Engineering
Paul R. Paslay, Mechanical Engineering
John J. W. Rogers, Geology
Z. W. Salsburg, Chemistry

To Associate Professor

James Castañeda, Spanish
Robert F. Curl, Chemistry
Harry A. Deans, Chemical Engineering
Paul L. Donoho, Physics
Herbert Lehnert, German
Francis L. Loewenheim, History
Leonard Marsak, History
Thomas A. Rabson, Electrical Engineering
John M. Roberts, Mechanical Engineering
J. Alan Robinson, Philosophy
Ronald Sass, Chemistry
Joseph Wilson, German

TRUSTEE DISTINGUISHED PROFESSORSHIPS FOR 1963-1964

Hubert Bray, Mathematics
James Chillman, Jr., Fine Arts
Alan D. McKillop, English
Radoslav A. Tsanoff, Humanities

FACULTY APPOINTMENTS

Professors

Henry C. Bourne, Electrical Engineering
Captain Duncan F. Francis, Naval Science
J. L. Franklin, Chemistry (on leave until 1/1/64)
Bert Kaplan, Psychology
Colonel Paul H. Lanphier, Military Science
A. J. Lohwater, Mathematics (on leave until 9/1/64)
Brian J. O'Brien, Space Science
Ronald Paulson, English
R. John Rath, History
A. S. Veletsos, Civil Engineering (effective 9/1/64)
Philip A. Wadsworth, French (effective 9/1/64)
G. King Walters, Physics

Associate Professors

John B. Cheatham, Mechanical Engineering
Philip F. Detweiler, History
Donald N. Levin, Classics
Jasper A. Rose, Fine Arts

Assistant Professors

E. B. Carter, Physics
Donald D. Clayton, Space Science
Harold D. Crouse, Education
Gilbert M. Cuthbertson, Political Science
Edward O. Doughtie, English
Frank M. Fisher, Biology
George S. Innis, Mathematics
Hans Jaksch, Economics
Richard A. Jenner, Economics
Robert R. Lankford, Geology
J. Venn Leeds, Jr., Electrical Engineering

James C. Legg, Physics
Allen J. Matusow, History
F. Curtis Michel, Space Science
Charles K. Miller, Mathematics
Madeleine M. Raaphorst, French
Richard R. Randolph, Anthropology
Gerald M. Straka, History
John W. Velz, English

Instructors

Eva-Maria Gerstel, French
Hanna B. Lewis, German
Wendell Liemohn, Health and Physical Education
W. H. Lyne, Electrical Engineering
Charles E. Neu, History
Mrs. Gertrud Pickar, German
Dale W. Spence, Health and Physical Education
Sidney P. Victory, Jr., Civil Engineering

VISITING FACULTY

Howard B. Curtis, Associate Professor of Mathematics
Sergei P. Dobrovolsky, Professor of Economics
Aubrey M. Farb, Professor of Business Administration
Charles W. Kegley, Professor of Religion (2nd semester, 63-64)
Leon Kraintz, Professor of Biology
Barnes F. Lathrop, Professor of History (2nd semester, 63-64)
John E. Simmons, Assistant Professor of Biology
Peter Swan, Associate Professor of Physics
Katherine E. Wheatley, Professor of French (2nd semester, 63-64)

LECTURERS AND VISITING LECTURERS

Mrs. Barbara Bartholomew, English
Mrs. Fletcher Brown, Fine Arts
Richard Cook, Space Science
Miss Francoise C. Courtine, French
Oleh S. Fedyshyn, Political Science
Mrs. Mary Ellen Goodman, Anthropology and Sociology
Elton B. Hale, Commerce
E. T. Markey, Commerce
Larry McMurtry, English
Walter C. Neale, Economics
John G. Pirsch, Biology
David Snell, Economics
William F. Staats, Commerce
F. W. Wodtke, German

ON LEAVE OF ABSENCE
1962-1963

K. O. Backus, Academic Year, Instructor in Civil Engineering

James A. Castañeda, Academic Year, Assistant Professor of Spanish

Calvin M. Class, Second Semester, Professor of Physics

Jim Douglas, Jr., First Semester, Professor of Mathematics

James K. Dunaway, Academic Year, Associate Professor of Architecture

J. Bernard Giles, May-July, Director of Admissions and Lecturer in Economics

Gerald R. MacLane, Second Semester, Professor of Mathematics

John E. Plapp, April-August, Associate Professor of Mechanical Engineering

Verne F. Simons, First Semester, Associate Professor of Business Administration

Val Woodward, First Semester, Associate Professor of Biology

NECROLOGY

John Frankie. Died March 12, 1963 at the age of 50.

Basketball coach. Johnnie Frankie was an outstanding athlete during his Rice undergraduate days. He started his coaching career at San Jacinto High School in 1937. After coaching at Milby High School for several years, he went to Texas A. & M. as basketball coach and football aide in 1945. Frankie came to Rice in 1959 from Wharton Junior College where he served as athletic director and head coach in football, basketball and track. A new dormitory was named for him at Wharton Junior College in 1957.

George Wesley Whiting. Died July 4, 1963 at the age of 75.

Emeritus Professor of English. Dr. Whiting came to Rice in 1926 and rapidly became a favorite of students and colleagues. His special field was seventeenth-century literature with emphasis on the works of John Milton. He was the author of many learned papers and is remembered especially for his two outstanding books on Milton—*Milton's Literary Milieu* and *Milton's Poetry and This Pendant World*. At the time of his retirement from teaching in 1957 his colleagues honored him with a special group of essays, *Studies in English*, published in the *Rice Institute Pamphlet*.

"It is the University's obligation both to conserve the treasure comprising the intellectual experience of all humankind and to promote its growth and effective use. One major function, therefore, is the transmission of knowledge to the next generation. But it is also the function of the true university to increase this treasure of knowledge in three ways: first, through artistic creation and laboratory experiment to explore new phenomena and give birth to new ideas and new understanding; second, to be ever vigilant in checking presently accepted principles, which, while seldom wholly wrong, are equally rarely completely correct, and to develop more nearly true explanations; and third, to interpret general principles in such a manner that they may be usefully applied to the solution of the problems of individual citizens, of industry, and of government at all levels from the city to the nation."

From "The President's Response"
at the Inaugural Ceremonies
of President K. S. Pitzer
October 10, 1962